

**INSIDE THIS ISSUE:**

VE Testing	page 2
Novice/Tech Classes	page 3
OM/YL Lunch Bunch	page 3
CCARC Meeting	page 3
From the President	page 4
By-Laws Changes	page 5
Club Calendars	page 6 & 7
General/Board Minutes	page 8
Radio Exam Session	page 9
Antenna Article	page 9
Dits and Bits	page 10
The Amateur's Code	page 10

**COLORADO SPRINGS,  
COLORADO****JANUARY 1995**

Pikes Peak Radio Amateur Association, Inc.  
P. O. Box 16521  
Colorado Springs, Colorado 80935

**FIRST CLASS MAIL**

Renew before 12/31/95  
RON & LIZ DEUTSCH  
N1CQF/N0TLK  
4305 RIDGE LANE DR.  
COLO. SPGS., CO 80916



# Ø BEAT



## P.P.R.A.A Officers and Directors

President-	Steve Westby	WB7VHR	1640 Keith Drive	80916	670-1070
Vice-President-	John Martin	NØOCZ	8233 Colony Circle	80919	670-1070
Secretary-	Luci Stansberry	NØJMV	2830 E. Uintah	80918	636-1290
Treasurer--	Ron Deutsch	NKØP	4305 Ridgeland Drive	80918	636-1290
Board Member-	Ora Marie Rose	NØQJX	5214 Colter Lane	80915	670-1070
Board Member-	Jeff Ryan	NØWPA	6721 Northface Lane	80919	260-8826
Board Member-	Harry Russell	NØSFP	11710 Tracy Lane, Peyton	80831	749-0244
Board Member-	Jill Kamienski	AAØTH	P.O. Box 5590, Woodland Pk	80866	687-5864
Board Member-	Warren Hickey	WB7VHR	112896 Tla Lane	80908	486-0471
Past President-	Steve Westby	NØYTO	1640 Keith Drive	80916	670-1070
Ø-Beat Editor-	Kathie Martin	NØMMI	3148 Maverick Drive	80918	684-9339
Ø-Beat Editor-	Mike Martin	NØMMI	3148 Maverick Drive	80918	684-9339

**ZERO BEAT** is published monthly in the interest of the members of the Pikes Peak Radio Amateur Association, Inc., PO Box 16521, Colorado Springs, Colorado 80936. For membership and subscription information see last page of this publication. The Pikes Peak Radio Amateur Association meets monthly on the second Wednesday of each month at the Disabled American Veterans, Chapter 26, 6880 Palmer Park Blvd. at 7PM.

**EDITORS:** Kathie Martin, NØYTO and Mike Martin, NØOCZ, 3148 Maverick Drive, Colorado Springs, Colorado 80918 (719)594-9339. Deadline for submission of articles or ads is the 20th of each month. Submissions may be sent to the Editor or to the club PO box. Permission to reprint articles is granted provided credit is given to both the author and this publication.

**ADVERTISING RATES:** Full page \$48; half page \$24; quarter page \$12; business card \$6. These are monthly rates and are billed quarterly. Send your ad requests and payments to: PPRAA, PO Box 16521, Colorado Springs, Colorado 80936.

## Committee Chairpersons, etc.

Publicity	Al Craig	594-9288
Membership	Les Borst	634-3995
Education	Al Bailey	597-8514
VE Testing	Rick Brown	531-9423
Interference	Bill Petty	591-2116
RACES	Doug Moloney	unlisted
ARES	Mike Stansberry	636-1290
Skywarn	Steve Westby	670-1070
Public Service	Mike Stansberry	636-1290
CCARC	Oak Stockton	570-7782
Club Trailer	Harry Russell	749-0244
Ø-Beat	Kathie Martin & Mike Martin	594-9339
Club Historian	Al Craig	594-9288
Falcon Wanderers	Bob Nyman	574-5161
Programs	John Martin	531-6369
Swapfeet	Harvey Hunter	597-8964
Finance	John Martin	531-6369

## Reminder - January Meeting

The next meeting of the PPRAA will be held on Wednesday, January 11th at the Disabled American Veterans Hall located at 6880 Palmer Park Blvd. The meeting starts at 7:00 PM. Program will be "Home Brew."

## VE Testing

Rick Brown - KDØSU

VE Testing is sponsored by the PPRAA on the 2nd Saturday of February, April, June, August, October, and December. Testing takes place at 9:00 AM at:

Denver Technical College (DTC)  
225 South Union  
Colorado Springs

While we prefer pre registration, walk-ins are accepted on a space available basis. Anyone wishing to take an examination should bring the following items:

1. \$5.90 (preferably a check or money order made out to ARRL/VEC) for any exam other than element 1A or 2.
2. Picture identification.
3. A copy of your current amateur license as well as the signed original. A copy of any examination credit you have as well as the original. We keep the copies.
4. Pen, pencils, and a calculator if you need one.

To pre register, or if you have any questions, please call me at 531-9423. Please do not call DTC, they only provide us the rooms for testing and they do not have any information concerning the test session.

## NOVICE AND TECHNICIAN CLASSES

A Novice and Technician class for those persons wishing to obtain or upgrade an Amateur Radio License will be conducted at the Tesla Society, 2220 East Bijou Street in Colorado Springs. The classes are free to the general public; however, each class attendee should be prepared to purchase the ARRL "Now Your Talking" textbook which costs approximately \$19. In addition to the textbook, the Technician Class examination will cost \$5.75.

The Novice class will be held each Monday and Wednesday evening beginning at 6:00pm on Wednesday, January 11th; and ending on Wednesday, February 8th, 1995. The class will cover an introduction to International Morse Code and novice theory on amateur rules, regulations, and operating practices. The class will also cover basic electronic, antenna, and transmission theory required to pass the Novice Licensing Examination. Each individual who wishes to obtain their license should be prepared to attend each class for the five week period.

The Technician class will be held each Monday and Wednesday evening beginning on Monday, February 13th; and ending on Wednesday, March 1st, 1995. The class will cover technician theory on amateur rules, regulations, and operating practices; and electronic, antenna, and transmission theory required to pass the Technician Licensing Examination. Each individual who wishes to obtain their license should be prepared to attend each class for the three week period.

Those persons wishing to attend the courses should pre-register by contacting the Tesla Society at 475-0918 or Frank McNally at 596-8733 during the evening.



## CCARC MEETING

PPRAA will host the next meeting of the Colorado Council of Radio Amateur Clubs at 1:00pm, Saturday, 25 March 1995. Location is to be in the Falcon Division Community Room, Falcon Substation, Colorado Springs Police Department, 7850 Goddard Street. Goddard Street is parallel to the north end of Academy Boulevard, within the loop of Kelly Johnson Boulevard, one block south of Interstate 25. Whit Brown, WB0CJX, Frequency Coordinator for Colorado, and Chairman, CCARC, will demonstrate the CCARC-owned Automatic Scanning and Recording Receiver. All amateurs are invited to attend, especially those operating a VHF-UHF repeater in Colorado. The PPRAA is a charter member of CCARC.



### OM/YL LUNCH BUNCH

The OM/YL Lunch Bunch gathered 21 people for their Christmas get together and all had a really good time. A great way to end 1994.

To begin our 1995 luncheons we will meet at the Home Town Buffet at the Shops of the Bluffs at noon on January 19th. Please come and join us!

73s  
Rosie Calaway, WA0MNL

## **ATTENTION ALL PPRAA MEMBERS**

### **FROM THE PRESIDENT--**

Do we have a quorum?

quorum (kwor' um) n. 1. The minimum number of officers and members of a committee or organization, usually a majority, who must be present for the valid transaction of business.

As an organization incorporated under the laws of Colorado, the PPRAA must conduct its business legally and properly. According to the current bylaws of the association, we can not legally conduct business without thirty (30) percent of the voting members present at the meeting. This has become a problem. Our membership has grown although the number of persons attending meetings has not. One reason for this phenomena is that many people want to support the Association and/or receive the Association's newsletter, but don't wish to attend meetings. We have reached a point where we will not be able to legally conduct meetings unless (1) more people attend meetings or (2) we change the bylaws.

The Board of Directors has voted to change the bylaws, subject to the approval of the membership, to reduce the number of persons required for a quorum at the regular monthly meeting. Based on meeting attendance over the last several months, the Board has recommended the quorum be set at fifteen (15) percent of the voting membership. And now, for the Catch-22: at January's meeting, there needs to be a quorum (based on the current bylaws) in order to vote the change.

All members of the Association are encouraged to attend the January meeting to ensure a quorum is present, thus allowing the Association to amend its current bylaws. Please check your calendars and, if possible, plan to attend January's meeting. In addition, please contact other members and encourage them to attend. Your Association needs your help! Without it, this problem could prevent the Association from conducting its business. I hope to see you there.

Steve, WB7VHR  
President, PPRAA

## **SECOND ANNOUNCEMENT!!!**

### **BYLAWS CHANGES:**

The Board of Directors has recommended changes to the existing bylaws of the Association. The proposed new bylaws and a summary of the changes was distributed at the December meeting. The members will be asked to vote on the proposed changes at the January meeting. A summary of the key changes:

1. Article II. Section 1.a.: Residency in the Pikes Peak Region added to the eligibility requirement to be a full member.
2. Article II. Section 1.c.: Family members only entitled to vote if they hold an amateur license and meet residency requirement.
3. Article II. Section 3.: Clarifies that officers are elected at the annual meeting.
4. Article II. Section 5.: Reduces the percentage of attendees needed for a quorum to fifteen percent.
5. Article III. Section 6.: Adds "in person" as a method of communicating notice of meeting.
6. Article IV. Section 1.: States that officers must first be members of the Board and further states that officers continue as board members concurrent with their tenure as officer and that term as board member is unaffected by term as officer.

Note: This change is in accordance with both the current bylaws and the Articles of Incorporation filed with the State. This change is not intended make it more difficult to run for office or preclude nominations for an officer from the floor—it clarifies the point that officers are members of the Board (concurrent with their position as an officer) and provides the method for ensuring the members of the Board are elected first as required by the Articles of Incorporation.

7. Article X Section 3.: New section defines and requires Standing Orders to be kept by the Secretary of the Association.

—The Board of Directors.

# PPRAA

## January 1995



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																																			
<b>1</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97 	<b>2</b> 8:00 PM SCTN 146.97	<b>3</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97	<b>4</b> 8:00 PM SCTN 146.97	<b>5</b> 8:00 PM SCTN 146.97 9:00 PM CMRG Info Net 147.345	<b>6</b> 8:00 PM SCTN 146.97	<b>7</b> 7:00 AM Village Inn Breakfast 7:30 AM Breakfast Country Kitchen Widefield (W2TJO) 9:30 AM Swapfest Meeting WA3EIB QTH 8:00 PM SCTN 146.97																																																																																			
<b>8</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97	<b>9</b> 8:00 PM SCTN 146.97	<b>10</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97	<b>11</b>  7:00 PM PPRAA Mtg DAV "Home Brew" 8:00 PM SCTN 146.97	<b>12</b> 8:00 PM SCTN 146.97 9:00 PM CMRG Info Net 147.345	<b>13</b> 8:00 PM SCTN 146.97	<b>14</b> 7:00 AM Village Inn Breakfast 7:30 AM Breakfast Country Kitchen Widefield (W2TJO) 8:00 AM Village Inn Breakfast/Monument (KE9S) 8:00 PM SCTN 146.97																																																																																			
<b>15</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97 	<b>16</b> 7:00 PM PPRAA Board Meeting/WOYN QTH 8:00 PM SCTN 146.97  Martin Luther King Jr.'s Birthday Observed	<b>17</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97	<b>18</b> 7:00 PM MARC Meeting Woodland Park 8:00 PM SCTN 146.97	<b>19</b> 8:00 PM SCTN 146.97 9:00 PM CMRG Info Net 147.345	<b>20</b> 8:00 PM SCTN 146.97 	<b>21</b> 7:00 AM Village Inn Breakfast 7:30 AM Breakfast Country Kitchen Widefield (W2TJO) 8:00 PM SCTN 146.97																																																																																			
<b>22</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97  	<b>23</b> 8:00 PM SCTN 146.97	<b>24</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97  	<b>25</b> 8:00 PM SCTN 146.97	<b>26</b> 8:00 PM SCTN 146.97 9:00 PM CMRG Info Net 147.345	<b>27</b> 8:00 PM SCTN 146.97	<b>28</b> 7:00 AM Village Inn Breakfast 7:30 AM Breakfast Country Kitchen Widefield (W2TJO) 8:00 PM SCTN 146.97																																																																																			
<b>29</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97  	<b>30</b> 8:00 PM SCTN 146.97	<b>31</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97		<table border="1"> <caption>December 94</caption> <tr> <th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th> </tr> <tr> <td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td></td> </tr> <tr> <td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td> </tr> <tr> <td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td> </tr> <tr> <td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td> </tr> <tr> <td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td> </tr> </table>	S	M	T	W	T	F	S				1	2	3		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	<table border="1"> <caption>February 95</caption> <tr> <th>S</th><th>M</th><th>T</th><th>W</th><th>T</th><th>F</th><th>S</th> </tr> <tr> <td></td><td></td><td></td><td>1</td><td>2</td><td>3</td><td>4</td> </tr> <tr> <td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td> </tr> <tr> <td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td> </tr> <tr> <td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td> </tr> <tr> <td>26</td><td>27</td><td>28</td><td></td><td></td><td></td><td></td> </tr> </table>	S	M	T	W	T	F	S				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28				
S	M	T	W	T	F	S																																																																																			
			1	2	3																																																																																				
4	5	6	7	8	9	10																																																																																			
11	12	13	14	15	16	17																																																																																			
18	19	20	21	22	23	24																																																																																			
25	26	27	28	29	30	31																																																																																			
S	M	T	W	T	F	S																																																																																			
			1	2	3	4																																																																																			
5	6	7	8	9	10	11																																																																																			
12	13	14	15	16	17	18																																																																																			
19	20	21	22	23	24	25																																																																																			
26	27	28																																																																																							

# PPRAA

## February 1995



Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday																																																																													
			<b>1</b> 8:00 PM SCTN 146.97	<b>2</b> 8:00 PM SCTN 146.97 9:00 PM CMRG Info Net 147.345  Groundhog Day	<b>3</b> 8:00 PM SCTN 146.97	<b>4</b> 7:00 AM Village Inn Breakfast 7:30 AM Breakfast Country Kitchen Widefield (W2TJO) 8:00 PM SCTN 146.97																																																																													
			<b>Novice Class (pg 3)</b>																																																																																
<b>5</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97	<b>6</b> 8:00 PM SCTN 146.97	<b>7</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97	<b>8</b> 7:00 PM PPRAA Mtg DAV "Winter Survival" 8:00 PM SCTN 146.97	<b>9</b> 8:00 PM SCTN 146.97 9:00 PM CMRG Info Net 147.345	<b>10</b> 8:00 PM SCTN 146.97	<b>11</b> 7:00 AM Village Inn Breakfast 7:30 AM Breakfast Country Kitchen Widefield (W2TJO) 8:00 AM Village Inn Breakfast/Monument (KE9S) 8:00 PM SCTN 146.97  VE Test (see pg 2)																																																																													
			<b>Novice Class (pg 3)</b>																																																																																
<b>12</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97  Lincoln's Birthday	<b>13</b> 7:00 PM PPRAA Board Meeting 8:00 PM SCTN 146.97	<b>14</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97  Valentine's Day	<b>15</b> 7:00 PM MARC Meeting Woodland Park 8:00 PM SCTN 146.97	<b>16</b> 8:00 PM SCTN 146.97 9:00 PM CMRG Info Net 147.345	<b>17</b> 8:00 PM SCTN 146.97	<b>18</b> 7:00 AM Village Inn Breakfast 7:30 AM Breakfast Country Kitchen Widefield (W2TJO) 8:00 PM SCTN 146.97																																																																													
			<b>Tech Class (pg 3)</b>																																																																																
<b>19</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97	<b>20</b> 8:00 PM SCTN 146.97  O-Bear Deadline  President's Day	<b>21</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97	<b>22</b> 8:00 PM SCTN 146.97  George Washington's Birthday	<b>23</b> 8:00 PM SCTN 146.97 9:00 PM CMRG Info Net 147.345	<b>24</b> 8:00 PM SCTN 146.97	<b>25</b> 7:00 AM Village Inn Breakfast 7:30 AM Breakfast Country Kitchen Widefield (W2TJO) 8:00 PM SCTN 146.97																																																																													
			<b>Tech Class (pg 3)</b>																																																																																
<b>26</b> 8:00 AM COLORADO ARES NETS 3928.0 6:30 PM RACES HF NET 3990.5 8:00 PM SCTN 146.97	<b>27</b> 8:00 PM SCTN 146.97	<b>28</b> 7:00 PM ARES NET 146.97 8:00 PM SCTN 146.97 9:00 PM RACES NET 146.97	<b>January</b> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td></tr> <tr><td>8</td><td>9</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td></tr> <tr><td>29</td><td>30</td><td>31</td><td></td><td></td><td></td><td></td></tr> </table>		S	M	T	W	T	F	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					<b>March</b> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>S</td><td>M</td><td>T</td><td>W</td><td>T</td><td>F</td><td>S</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td><td>11</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td></tr> <tr><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td><td>31</td><td></td></tr> </table>		S	M	T	W	T	F	S	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
S	M	T	W	T	F	S																																																																													
1	2	3	4	5	6	7																																																																													
8	9	10	11	12	13	14																																																																													
15	16	17	18	19	20	21																																																																													
22	23	24	25	26	27	28																																																																													
29	30	31																																																																																	
S	M	T	W	T	F	S																																																																													
5	6	7	8	9	10	11																																																																													
12	13	14	15	16	17	18																																																																													
19	20	21	22	23	24	25																																																																													
26	27	28	29	30	31																																																																														
			<b>Tech Class (pg 3)</b>																																																																																

## SPECIAL BY-LAWS MEETING

December 12, 1994

Held at NØWPA's house.

In attendance were John-NØURR, Steve-WB7VHR, Les-KCØNC, Jody-KAØROZ, Kathie-NØYTQ, Mike-NØOCZ, Harry-NØSFP, Jeff-NØWPA, Jill-AAØTH, Ron-NKØP and Luci-NØOUD. Mike NØOCZ filled in for Warren-WØYNE.

The primary discussion was the by-laws. Need clarity of the number of board members. Also if past president slot should be filled if reelected. The quorum issue was discussed thoroughly in which in order to have a meeting we should reduce the quorum to 15% in order to conduct a meeting and vote on major issues. Membership was talked about regarding who is legal to vote on club matters, also if we should have proxy votes.

*Submitted by Luci, NØOUD, PPRAA Secretary*

## PPRAA GENERAL MEETING

December 14, 1994

55 members, 13 visitors

Meeting called to order by Steve, WB7VHR, with introductions. Treasurer's report was read by Ron, NKØP. Minutes were approved.

Committee reports.

V.E. Testing: Rick, KDØSU next testing 2nd Saturday in February.

CCARC: Oak, KØROL, will meet March 25th at the Northside police station on I-25.

January 7 Swapfest meeting 9:30AM.

January 8 6:30PM Skywarn dinner. Need to sign up with WB7VHR-Steve.

New Business: By-laws issues were presented by NØWPA-Jeff, while a copy was handed out to the members present. Voting on the by laws will be at the January meeting.

Meeting turned into a social Christmas Party, with plenty of goodies that was enjoyed by all.

Then Jeff, NØWPA hosted Jeopardy that was a lot of fun.

Board meeting will be at Kathie and Mike Martin's house.

Hammy Award was presented to KØTER for HAM of the year.

Hammy of the month went to Jill, AAØTH.

Door prizes presented by John, NØURR.

Ken, NØNKP, had a Christmas Story. (The Origin of a Christmas Angel).

The donations of equipment was made to KØTER and WØOOD and they will distribute monies to whom they see fit.

*Submitted by Luci, NØOUD, PPRAA Secretary*

## PPRAA BOARD OF DIRECTORS

MEETING

December 19, 1994

Held at Kathie and Mike's house.

In attendance were Steve-WB7VHR, Ron-NKØP, John-NØURR, Ora-NØQJX, Harry-NØSFP, Jill-AAØTH, Jeff-NØWPA, Kathie-NØYTQ, Warren-WØYNE, and Luci-NØOUD.

Steve went around the room asking if anyone had any business.

Ron has some administrative expenses of \$37.50 that need to be paid. It was brought up that we donate money to the D.A.V. for the use of the building everytime we meet, and treat it as a public service expense. The Library exhibit that was held this past fall, cost \$150.00. Also this matter has to be paid. The trailer is in need of roof and ceiling repairs, before events become upon us. A matter of reimbursing ARES for mailing of the rosters. Discussion followed.

501c3 tax exempt was discussed to see if it would benefit the club. It was decided it should be brought up to the membership. Also having a CPA to audit the books yearly, who is not a club member.

By-laws discussed. There should be a period of time before a member could serve on the board. It was decided that a 90 day period be adequate.

There should also be a period of time after notification to a club member who does comply with proper radio and club policies before their membership is canceled.

A motion was made to have two categories for home-brew night. One being Kits (1st place and runner-up awarded) and true home-brew (1st place and runner-up awarded) with a cash value of \$15.00 for 1st place and \$5.00 for runner-up in both categories. All in favor.

*Submitted by Luci, NØOUD, PPRAA Secretary*

# Radio Exam Session

By Rick Brown - KD0SU

We had a great exam session in December. The following is a list of those earning new licenses or upgrades.

## TECHNICIAN

Melvin Leader  
Robert Stack  
Joseph Simmerman  
Relly Poshusta

## TECHNICIAN/HF

William Larson  
Robert Piersant

## GENERAL

Ginger Hipszky NØUOD  
Clifford Mikkelson NØZVQ

## ADVANCED

Ronald Reeves KBØMMX  
Carmen Johnson KBØMMW  
Tami Keith NØNLE  
Rick Jackson KBØPNV

There were several other individuals earning element credit. We look forward to seeing them back in February to upgrade.

I would like to thank the following individuals for helping to give the exams.

Steve WB7VHR  
Harvey WA3EIB  
EJ KDØNB  
George KBØKID  
Ed WØVO  
Joe KQØS  
Mike NØXWN  
Bill K4YCD

While I don't have the number of people who have taken tests with us during 1994, I can say it has been a very successful year. We have added many new hams to the club and local area. We expect 1995 will be producing many new hams as well. When you hear them on the air please welcome them and "Elmer" them into the ranks.

HAPPY NEW YEAR  
THINK UPGRADE IN 1995!!!



## ANYONE INTERESTED IN A NEW KIND OF ANTENNA??

The following excerpt was taken from a letter to the PPRAA from Gordon L. Schmehl, W7LVU, of Bellevue, Washington. Al Craig, N2IWZ, the letter in its entirety.

### Gutterdownspout Antenna

...In view of the fact that our home is in a Townhome complex of 84 units, with our particular unit being the first of 5 at the head of the road into the complex, hence the restriction on external antennas, a different setup.

I have whips inside the garage but they are nowhere nearly as effective as the Gutterdownspout unit. I've connected the various physical joints with Pop-Rivets to insure continuity and the Coax is connected to the bottom of the downspout where it goes into the gutter drain. My ground system is the ground rod of the Phone and Cable TS system, to which I've connected a 38 foot wire and imbedded it in the crack between garage and drive way covered with asphalt and at the transmitter I use an MFJ-931 Artificial Ground, and with this setup on all bands 80 thru 10 meters am able to tune satisfactorily with the SWR meter setting at Zero Reflected power, adjusting for frequency difference on the bands themselves, and no problems of TVI to myself or neighbors. And it works better when raining....

## *The Amateur's Code*

### **ONE**

**The Amateur is Considerate...** He never knowingly uses the air in such a way as to lessen the pleasure of others.

### **TWO**

**The Amateur is Loyal...** He offers his loyalty, encouragement, and support to his fellow radio amateurs, his local club, and to the American Radio Relay League, through which Amateur Radio is represented.

### **THREE**

**The Amateur is Progressive...** He keeps his station abreast of science. It is well-built and efficient. His operating practices above reproach.

### **FOUR**

**The Amateur is Friendly...** Slow and patient sending when requested, friendly advice and counsel to the beginner, kindly assistance, cooperation and consideration for the interests of other; these are marks of the amateur spirit.

### **FIVE**

**The Amateur is Balanced...** Radio is his hobby. He never allows it to interfere with any of the duties he owes to his home, his job, his school, or his community.

### **SIX**

**The Amateur is Patriotic...** His knowledge and his station are always ready for the service of his country and his community.

{Ed.: from *The ARRL 1986 Handbook*}

THIS SPACE IS  
RESERVED  
FOR YOUR ARTICLE



### **Dits and Bits**

#### **For Sale:**

Complete Packet Station (TNC-Radio-Terminal)  
\$350

ICOM 02 AT H/T with BC-35 desk charger \$165

YAESU FT-209R H/T with 3 battery packs \$175

AZDEN 2 mtr mobile 5-25 vatts \$200

Several DC pwr supplies—various prices

RF CONCEPTS 2-417 amp 170 watts (new)  
\$260

KANTRONICS TNC ALL MODE PLVS (new)  
\$275

KENWOOD TS-680s 10m thru 160m \$700

6 Meter Beam with Rotor \$125

Many other items too numerous to list

NØHRD Mini Swapfest

Call "Will" 1-719-471-8527

# Please Support our Advertisers!

## OEM Parts Inc.

Quality  
Optical-Electronic-Mechanical Parts  
Buy-Sell-Trade-New & Used Surplus Items

3029 North Hancock Ave.  
Colorado Springs, CO. 80907  
(719) 535-0771 or 635-0772  
FAX (719) 475-2240

## MLEY'S RADIO

Jess KØTAA  
719 W 7th St.  
Florence, Colorado 81226  
(719) 784-3040

All brands of new, used, and consignments  
We trade and give you top trade-in price  
We buy used ham equipment

## Centennial Electronics RCA—GE Distributor

Tubes	Test Equipment
Solder Alts	VCR/Shmoo Accessories
Capacitors	Tools

"Hard to Find Batteries and Tubes"

Ham & Senior Discount  
Wholesale—Retail

Hours: 8:30—1 Sat. / 8:30 — 5:30 Mon. — Fri.

2324 E. Bijou  
Colorado Springs, CO. 80909  
633-4604

## 11 Store Buying Power



8400 East Iiff, Unit 9  
Denver, Colorado 80231

(303)745-7373

(800)444-9476

24 Hour FAX Order Line (303)745-7394

Joe KDØGA  
John N5EHP  
John KFØPQ

Dean ACØS  
Mike NKØE  
Brian NØIGQ

## COLORADO STITCHERY

Custom Design-Club Jackets  
Computerized Embroidery—Digitizing

Norm Skinner  
(719) 530-9181  
Fax 570-6180

770-101 Woolen Rd.  
Colorado Springs, CO. 80915

## PENNIE'S PIKE'S PEAK Sewing Center



Sales • Repair

Pennie & Frank Drake

Phone  
719-570-1335

3866 Maizeland Rd.  
Colo. Spgs., Colo. 80909

## JOHN MAX

Colorado Springs Wintronic Co.  
Wholesale Distributors  
Electronic Parts, Supplies & Equipment

2638 N. Prospect St.  
Colorado Springs, CO. 80907  
Tel. (719) 535-1661  
FAX (719) 535-1663

## **\*\*\*\*\*ATTENTION MEMBERS\*\*\*\*\***

### **PLEASE READ INSIDE INFORMATION ON PROPOSED PPRAA BY-LAWS**

#### **Membership Application Pikes Peak Radio Amateur Association, INC.**

P.O. Box 16521  
Colorado Springs, Colorado 80935

Date \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Call \_\_\_\_\_ License Class \_\_\_\_\_ Telephone \_\_\_\_\_

Are you an ARRL member? Yes \_\_\_\_\_ No \_\_\_\_\_

One year membership rates. (Year starts with the month you receive your first issue.)

Full Member \$15.00 \_\_\_\_\_ Family Membership (same address) \$18.00 \_\_\_\_\_

Over 65 \$12.00 \_\_\_\_\_ Family Both over 65 \$12.00 \_\_\_\_\_

Associate (outside El Paso or Teller Co.) \$12.00 \_\_\_\_\_ Newsletter only \$12.00 \_\_\_\_\_

Additional Names: \_\_\_\_\_ Call \_\_\_\_\_ Class \_\_\_\_\_

IF THIS IS A RENEWAL PLEASE CHECK HERE: \_\_\_\_\_

PLEASE TYPE OR PRINT CLEARLY!